"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZHID-ZADE, A.P., starshiy inzh.

Deep-well testing valve. Neftianik 6 no.5:19 My '61.
(MIRA 14:5)

1. TSekh nauchno-issledovatel'skikh proizvodstvennykh rabot neftepromyslovogo upravleniya Kriovneft'.
(Oil well cementing)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZHIYEVSKAYA, Ye.I.; KAZAKOV, I., red.

[22 centners of peas per hectare] 22 tsentera gorokha s gektara. Smolensk, Smolenskoe knizhnoe izd-vo, [n.d.] 30 p. (MIRA 17:7)

1. Zaveduyushchaya Pochinkovskim gosudarstvennym sortoispytatel'nym uchastkom Smolenskoy oblasti (for Medzhiyevskaya).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSKY, Joseph.

CZECHOSLOVAKIA/Morphology of Man and Animals. Lymphatic and R.E. Systems. S-3

Abs Jour: Referat. Zh-Biol., No 1, 10 January 1958, 2874

Author : Medzihradsky, Joseph
Inst :
Title : A Study of Hemolymphatic Organs. II. On Circulation in Hemal Nodes.

Orig Pub: Biologia, 1956, 11, No 2, 87-101.

Abstract: No abstract.

Card : 1/1 -7-

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSKY, J.

MEDZIHRADSKY, J. Study of hemolymphatic organs. III. Lymphatic vessels of hemolymphatic nodes in white rats. p.150.

Vol. 11, No. 3, 1956, BIOLOGIA, BRATISLAVA, CZECHOSLOVAKIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSKY, J.

Studies on the influence of spleen tissue on the growth of some experimental tumours. I. Experiments with the "Portalization of the splenic vein" in rats inoculated with MR-leukaemai. Neoplasma 9 no.4:381-386 '62.

1. Onkological Research Institute, Bratislava, CSSR.
(LEUKEMIA, EXPERIMENTAL) (PORTAL VEIN)
(SPLENIC VEIN)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSKY, J.

Investigations on the influence of spleen tissue on the growth of some experimental tumours. II. The effect of spleen homotransplants on the transplantability of MR-leukaemia. Neoplasma 9 no.4:387-393 '62.

1. Oncological Research Institute, Bratislava, CSSR.
(SPLEEN) (TRANSPLANTATION) (LEUKEMIA, EXPERIMENTAL)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

SMIDOVA, V.; VALENTINOVA, N.; SMIDA, J.; MEDZIHRADSKY, J.

Neoplastic transformation of rat embryo fibroblasts by fowl sarcoma virus B77. Neoplasma (Bratisl.) 12 no.4:453-458 '65.

1. Oncological Research Institute, Bratislava, Czechoslovakia.
Submitted April 28, 1965.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSZKY-SCHWEIGER, Hedvig (Mrs) (Budapest, VIII., Muzeum korut 4/b)

Semimicro and microdetermination of carbobenzyloxy group.
Acta chimica Hung 37 no.3:239-245 '63.

1. Institut fur Organische Chemie der Lorand Eotvos Universitat, Budapest.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSZKY, K.

15. Intramolecular alpha-gamma transpeptidation of N-acylated glutamyle peptides, I. (in German) — J. Kovács, K. Medzihradszky, V. Bruckner. (*Acta Chimica Academiae Scientiarum Hungaricae* — Vol. 6, 1955, No. 1—2, pp. 183—189, 2 figs.)

It was found that by the action of acetic anhydride carbobenzoxy-gamma-L-glutamyl-glycine and carbobenzoxy-alpha-L-glutamyl-glycine were transformed into identical anhydro-compounds which upon partial hydrolysis yielded a mixture of the two compounds. A similar intramolecular transpeptidation occurred in the case of the structurally isomeric two carbobenzoxy-L-glutamyl-L-glutamic acids when upon partial hydrolysis of the bis-anhydro-compound the mixture of the two isomeric glutamic acids was obtained.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSKY, K.

Intermolecular α,γ-transpeptidation of γ-polyglutamic acid. V. Rueckner, J. Kovács, and K. Medzihradszky (Univ. Budapest). *Naturwissenschaften* 42, 305-6 (1955).—Heating a soln. of γ-polyglutamic acid in $HCONMe_2$ with Ac_2O in a N atm. a few hrs. at 110° gave an anhydropolyglutamic acid (I), insol. in $NaHCO_3$, readily sol. in 0.5*N* NaOH (room temp.). A polyglutamic acid (II) can be ppted. as the Cu salt from a soln. of I in 0.5*N* NaOH. II is sol. in H_2O and gives a bluish biuret reaction. II is a transition type between the α and γ types. The constitution was detd. by degradation in which both β-formylpropionic acid and α,γ-diaminobutyric acid were formed, the γ-glutamyl bonds dominate. It is not certain whether the reaction also gives racemization.

B. J. C. van der Hoeven

(3)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSZKY, K.

SCIENCE

PERIODICAL: MAGYAR KEMIAI FOLYOIRAT, Vol. 64, no. 7/8, July/Aug. 1958

Medzihradszky, K. Intramolecular transpeptization of structure isomer polyglutamic acids. p. 307.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIRADSKIY, K.

GOFMAN, A.; FREY, A.I.; RUTSHMANN, I.; OTT, Kh.; SHEMYAKIN, M.M.; KISHFALUDI, L.; KOCHETKOV, N.K.; DEREVITSKAYA, V.A.; PROKOF'YEV, M.A.; SHABAROVA, Z.A.; FILIPPOVA, L.A.; SHANKMAN, S.; KHAYGA, S.; LIV, F.; ROBERTS, M.Ye.; GAVRILOV, N.I.; AKIMOVA, L.N.; KHLUDOVA, M.S.; MAKSIMOV, V.I.; IZELIN, B.M.; SHEPPARD, R.K.; SHKODINSKAYA, Ye.N.; VASINA, O.S.; BERLIN, A.Ya.; SOF'INA, Z.P.; LARIONOV, L.F.; KNUNYANTS, I.L.; GOLUBEVA, N.Ye.; KARPAVICHUS, K.I.; KIL'DISHEVA, O.V.; MEDZIRADSKIY, K.; KAFTAR, M.; LEV, M.; KORENSKI, F.; BUASSONA, R.A.; GUTTMAN, St.; KHOYGENIN, R.L.; ZHAKENO, P.A.; BAZHUS, S.; LENARD, K.; DUAL'SKI, S.; SHREDER, Ye.; SHMIKHEN, R.; KHOKHLOV, A.S.

Results of the Fourth European Symposium on the chemistry of peptides. Abstracts of reports. Zhur. VKHO 7 no.4:468-476 '62. (MIRA 15:8)

1. Aktsionernoye obshchestvo "Sandos", Bazel', Shveytsariya (for Gofman, Frey, Ott, Rutshmann). 2. Farmatsevticheskaya fabrika "G.Rikhter", Budapesht, Vengriya (for Kishfaludi, Korenski, Dualski). 3. Institut khimii prirodnykh soyedineniy AN SSSR, Moskva (for Kochetkov, Derevitskaya, Shemyakin, Khokhlov). 4. Laboratoriya khimii belka Moskovskogo gosudarstvennogo universiteta (for Prokof'yev, Shabarova, Filippova, Gavrilov, Akimova, Khludova). 5. Fond meditsinskikh issledovaniy, Passadena, Kaliforniya, Sev.Soyed.Shtaty Ameriki (for Shankman, Khayga, Liv, Roberts). 6. Laboratoriya khimii belka Instituta organicheskoy

(Continued on next card)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

Gofman, A.,---(Continued) Card 2.

khimii AN SSSR, Moskva (for Maksimov). 7. Aktsionernoye obshchestvo "TSiba", Bazel', Shveytsariya (for Izelin). 8. Liverpul'skiy universitet, Angliya (for Sheppard). 9. Institut eksperimental'noy i klinicheskoy onkolofii AMN SSSR, Moskva (for Shkodinskaya, Vasina, Berlin, Sof'ina, Larionov). 10. Institut elementoorganicheskikh soyedineniy AN SSSR, Moskva (for Knunyants, Golubeva, Karpavichus, Kil'disheva). 11. Institut organicheskoy khimii Budapeshtskogo universiteta, Vengriya (for Medzigradskiy, Kaftar, Lev). 12. Farmatsevticheskiy otdel Aktsionernogo obshchestva "Sandos", Bazel', Shveytsariya (for Buassona, Guttman, Khoygenin, Zhakeno, Rutshmann). 13. Issledovatel'skiy institut farmatsevticheskoy promyshlennosti, Budapesht, Vengriya (for Bazhus, Lenard). 14. Aktsionernoye obshchestvo "Shering", Zapadnyy Berlin (for Shreder, Shmikhen).

(Peptides--Congresses)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSZKY, K.; KAJTAR, M.; LOW, M.

Synthesis of the nonapeptide sequence 1-9 of β-corticotropin.
Coll Cz Chem 27 no.9:2256-2257 S '62.

1. Institute of Organic Chemistry, University of Budapest, Hungary (for Medzihradszky).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

BAJUSZ,Sandor(Budapest VIII.,Rott[illegible]), LH[illegible],Katalin(Budapest VIII.,Rottenbiller u.26), KISFALUDY,Lajos[illegible]Budapest X.,Cserkesz u.5); MEDZIHRADSZKY,K., BRUCKNER,Viktor,prof.,dr.(Budapest VIII.,Puzeum korut 4/6

Synthesis of a dodecapeptide derivative for the formation of corticotropin active polypeptides. Acta chimica Hung 30 no.2:239-243 '62

1. Forschungsinstitut fur die Pharmazeutische Industrie; Chemische Fabrik Gedeon Richter;und Institut fur Organische Chemie der L. Eotvos Universitat.
2. Editorial Board member,"Acta Chimica Academiae Scientiarum Hungaricae" (for Bruckner).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

KISFALUDY, Lajos (Budapest X., Cserkesz utca 63); DUALSZKY, Sandor (Budapest X., Cserkesz utca 63); MEDZIHRADSZKY, Kalman (Budapest VIII., Muzeum korut 4/b); BAJUSZ, Sandor (Budapest VII., Rottenbiller u.26); BRUCKNER, Viktor, prof.,dr. (Budapest VIII., Muzeum korut 4/b)

Synthesis of a heptapeptide derivative for the formation of corticotropin of active polypeptides; a preliminary communciation. Acta chimica Hung 30 no.4:473-476 '62.

1. Chemische Fabrik Gedeon Richter; Institut fur Organische Chemie der Lorand Eotvos Universitat; Forschungsinstitut fur Pharmazeutische Industrie. 2. Editorial Board Member, "Acta Chimica" (for Bruckner).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 01107-66 EPF(c)/EWP(j) RM

ACCESSION NR: AT5022326 HU/2502/64/041/003/0265/0268

AUTHOR: Medzihradszky-Schweiger, Hedvig (Budapest); Kutassy, Sara (Budapest)

TITLE: Contributions to the microdetermination of phosphorus in phosphorus-containing organic compounds

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 3, 1964, 265-268

TOPIC TAGS: phosphorus, organic phosphorus compound, microchemical analysis

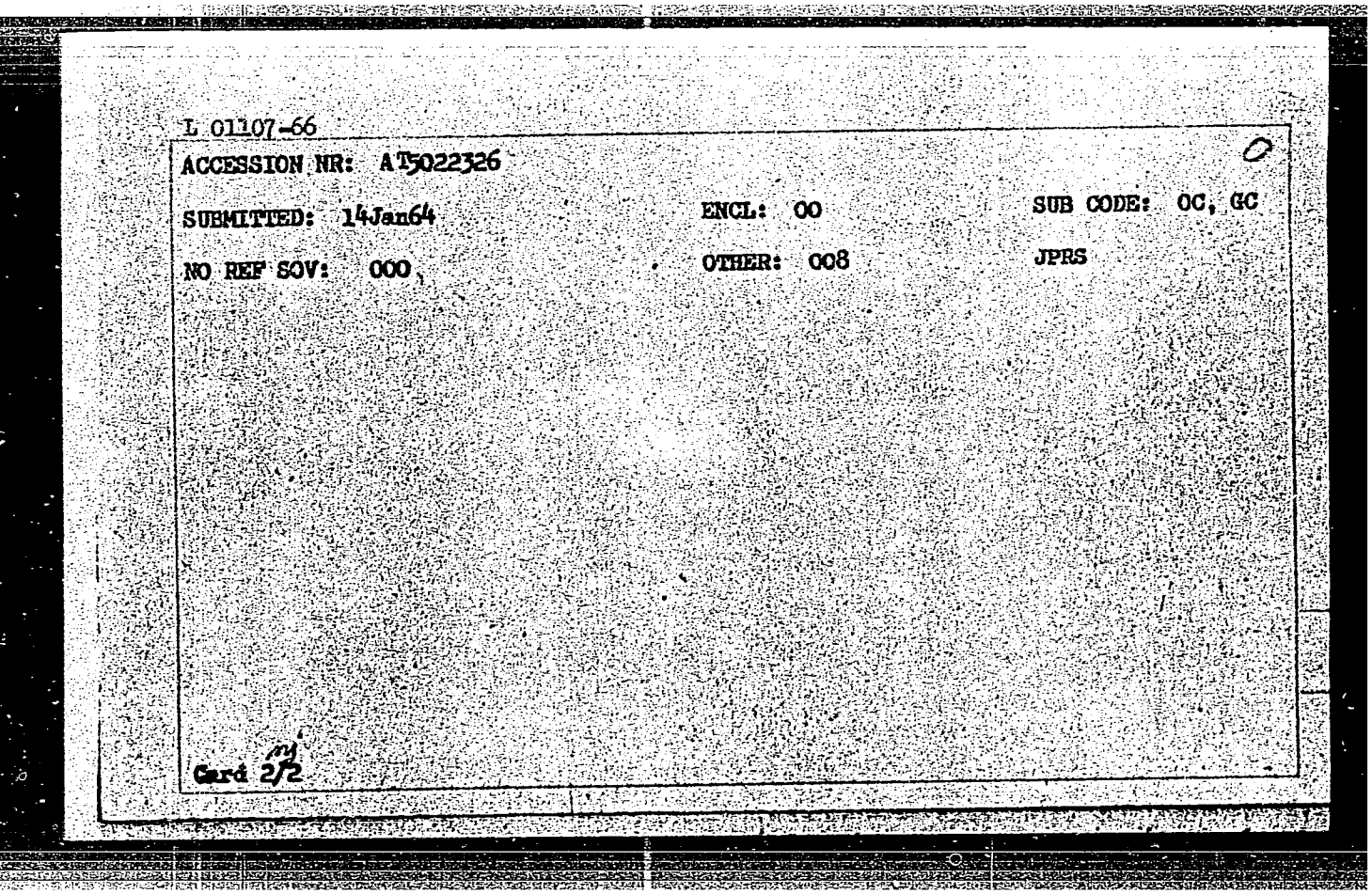
Abstract: [German article] The method described for the microdetermination of phosphorus in organophosphorus compounds such as nucleotids and phosphoric acid esters is based on incinerating the sample in the wet state and titrating the resulting material (containing all phorphorus in the form of orthophosphate ions) with a cerium trichloride solution. The combustion was complete and the results correlated well with those obtained by the methods involving sample incineration in an oxygen atmosphere. Orig. art. has 1 figure and 1 table.

ASSOCIATION: Institut fur Organische Chemie der L. Eotvos Universitat, Budapest (Institute of Organic Chemistry, L. Eotvos University)

Card 1/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8



L 01107-66

ACCESSION NR: AT5022326

SUBMITTED: 14Jan64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 000 OTHER: 008 JPRS

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 1187-66
ACCESSION NR: AT5025193 HU/2502/64/042/004/0317/0320

AUTHOR: Medzihradszky-Schweiger, Hedvig (Budapest); Kajtar, Judit (Budapest) 9, B+1

TITLE: Micro-determination of the N-carbobenzyloxy group in aminoacid derivatives by means of hydrogenolysis

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 4, 1964, 317-320

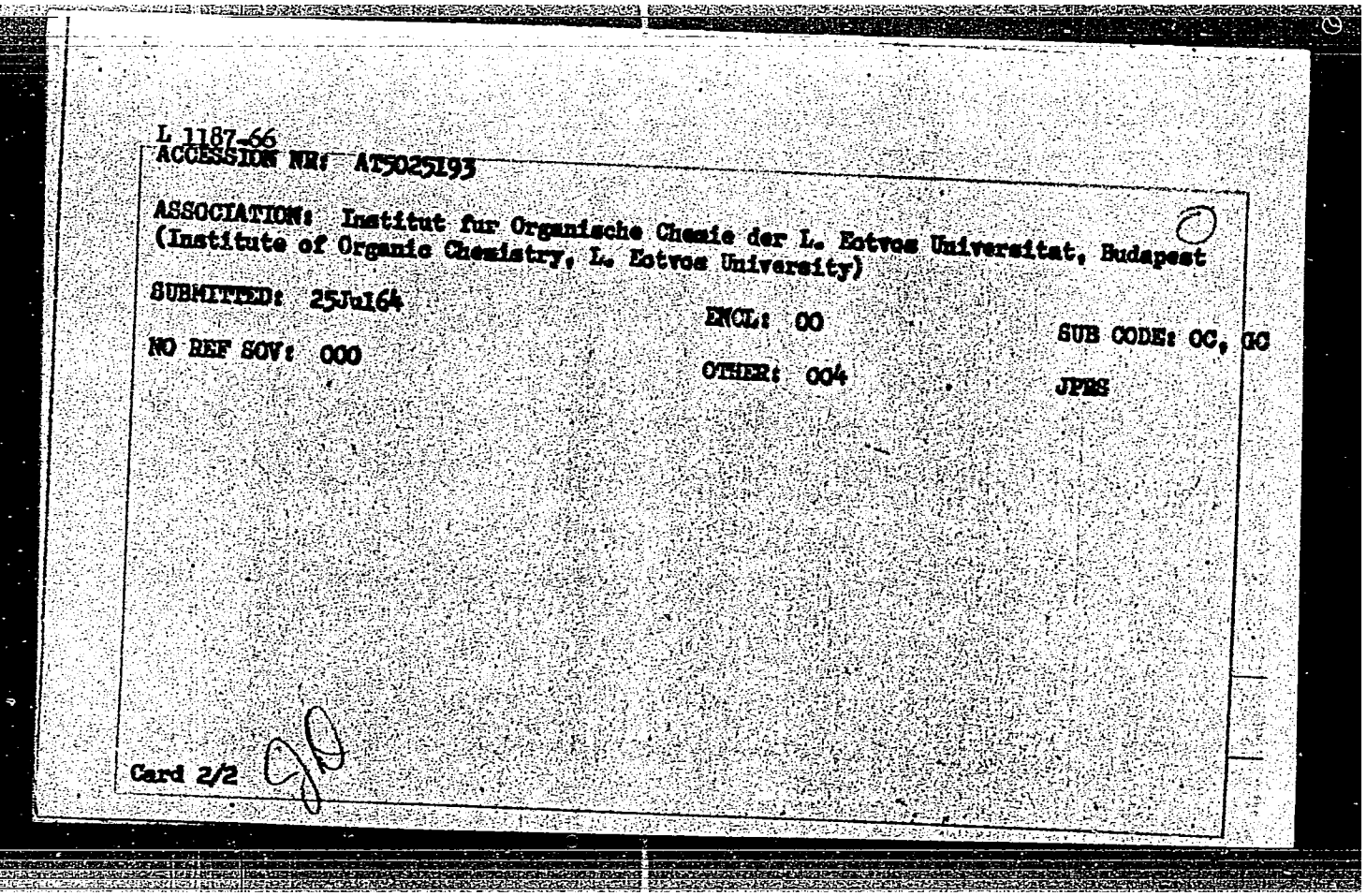
TOPIC TAGS: amino acid, microchemical analysis, chemical reaction

Abstract: [German article] To determine the N-carbobenzyloxy group in aminoacid derivatives on a micro-analytical scale, the substances were subjected to hydrogenolytic cleavage in a Roslich-type microhydrogenation apparatus and the quantity of hydrogen required to effect the reaction was determined. The analysis is conducted in a dimethylformamide medium. Some results were presented to illustrate the accuracy of the technique and the range of compounds to which it is applicable.
"Thanks are expressed to Professor V. Bruckner for the suggestion of this work and also for his worthwhile advice." Orig. art. has 1 table and 1 figure.

Card 1/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8



L 1187-66
ACCESSION NR: AT5025193

ASSOCIATION: Institut fur Organische Chemie der L. Eotvos Universitat, Budapest (Institute of Organic Chemistry, L. Eotvos University)

SUBMITTED: 25Jul64 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 000 OTHER: 004 JPRS

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZINSKIY E-2

Poland / Analytical Chemistry.
Analysis of Inorganic Substances.

Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4292

Author : Kapitanchik, Kuzhawa, Medzinsky

Title : Determination of Aluminum Oxide in Aluminum Metal

Orig Pub: Roczn. Chem., 1956, 30, No. 2, 607-612

Abstract: A method for determining Al_2O_3 present in aluminum metal is developed; it is based on the selective solubility of Al and Al_2O_3 in a solution containing 4g of tartaric acid, 1g of citric acid and 3 ml. of saturated $HgCl_2$ solution per 100 ml. To the resulting solution, 10 ml. of HCl (1:1) is added; the contents are boiled for 5 minutes, filtered, washed with a 5% solution of tartaric acid and the Hg is removed. Filter paper with the precipitate is burned, the ash fused with 3-4g of $K_2S_2O_7$ and

Card 1/2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

Poland / Analytical Chemistry.
Analysis of Inorganic Substances. E-2

Abs Jour: Ref. Zhur - Khimiya No. 2, 1958, 4292

the melt is dissolved in water. To the resulting solution 1 ml. of HCl (1:25) is added followed by 20 ml. of 40% CH_3COOH solution, 5% of Na_2CO_3 and KCN solutions of 4 ml. each, and after 10 minutes 10 ml. of 0.01% solution of hematoxylin and 4 ml. of a 10% solution of CH_3COOH. The resulting solution is made up to 100 cc. and the readings are taken at 540 mμ. with a photometer.

Card 2/2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIHRADSZKY-[illegible], Hedvig (Mrs) (Budapest, VIII., Muzeum korut 4/b)
KUTASSY, Sara (Mrs) (Budapest, VIII., Muzeum korut 4/b)

Contributions to micro-phosphorus determination in organic phosphorus compounds. Acta chimica Hung 41 no.3:265-268 '64.

1. Institut fur Organische Chemie der Lorand Eotvos Universitat, Budapest.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIYEVICH, I.M.

MEDZIYEVICH, I.M.

Diverticulum of the pericardium in small children. Pediatriia 35 no.12:50-53 D '57. (MIRA 11:2)

1. Iz kafedry fakul'tetskoy pediatrii (zav. A.M.Maksudov) Tashentskogo meditsinskogo instituta i Detskoy gorodskoy klinicheskoy bol'nitsy No.8 (glavnyy vrach Ye.M.Pendyurina)
(PERICARDIUM--DISEASES)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIYEVICH, I.M.

Case of congenital atelectasis. Med.zhur.Uzb. no.5:67-68 My '58. (MIRA 13:6)

1. Iz kafedry fakul'tetskoy pediatrii (zav. - dotsent A.M. Maksudov) Tashkentskogo gosudarstvennogo meditsinskogo instituta i detskoy klinicheskoy bol'nitsy No.6 (glavnyy vrach - Ye.M. Pendyurina).

(LUNGS--COLLAPSE)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIYEVICH, I.M.

Importance of radiography for the early diagnosis of tuberculosis in the mass over-all examination of children. Med. zhur. Uzb. no.12:24-26 D '60. (MIRA 14:1)

1. Iz kafedry fakul'tetskoy pediatrii (zav. - dotsent A.M.Maksudov [deceased] Tashkentskogo gosudarstvennogo meditsinskogo instituta i iz gorodskoy klinicheskoy detskoy bol'nitsy No.6 (glavnyy vrach - Ye.M. Pindyurina).

(TUBERCULOSIS—DIAGNOSIS) (LUNGS—RADIOGRAPHY)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIYEVICH, I.M.

Importance of X-ray examination of the lungs following influenza in children. Med. zhur. Uzb. no.1:44-46 Ja '62. (MIRA 15:3)

1. Iz kafedry fakul'tetskoy pediatrii (zav. - dotsent A.M. Maksudov [deceased]) Tashkentskogo gosudarstvennogo meditsinskogo instituta i Detskoy ob"yedinennoy klinicheskoy bol'nitsy No.6 (glavnyy vrach - Ye.M. Pindyurina).
(LUNGS--RADIOGRAPHY)
(INFLUENZA)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIYEVICH, M.M.

36874. MEDZIYEVICH, M.M., LEGKOVOD, T.I., i DERZHAVETS, B.S.
Rentgenokimograficheskaya kartina serdtsa bol'nykh gipertonicheskoy
bolezn'yu, lechennykh nekotorymi fizicheskimi faktorami. Trudy Uzbek. gos. nauch.-issl
in-ta kurortologii i fizioterapii im. Semashko, sb.11, 1949, c. 167-77

SO: Letopis' Zhurnal Nykh Statey, Vol. 50, Moskva, 1949

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZIYEVICH, M.M. [deceased]; DERZHAVETS, B.S.; KETKO, M.I.; GERSHKOVICH, L.S.

X-ray therapy for hypertension. Trudy Uz.gos.nauch.-issl. inst.kur. fizioter. 13:281-296 '55. (MIRA 18:2)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZMARIASHVILI, F. V.

A simplified preparation of samples for determination of sugar in must and wine. F. V. Medzmariashvili. *Vinodelie i Vinogradarstvo S.S.S.R.* 11, No. 9, 13–14(1951).—A must (or wine) sample, which after its final dilu. to 100 ml. will contain 0.25–1 g. of sugar, is freed from alc. on a water bath and transferred quantitatively into a 100-ml. volumetric flask. After cooling 10–15 ml. of 15% $ZnSO_4$ and 10–15 ml. of 4% NaOH are added, the flask is filled with distd. water to the mark, and the mixt. shaken thoroughly and filtered. An aliquot of the filtrate is then taken for the detn. of sugar by any conventional method. The results are in good agreement with those obtained from the filtrates of the samples previously treated with an active charcoal. B. Wierbicki

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

USSR

Preparation of samples for determination of sugar in must and in the grape residues. P. V. Medzmariashvili. *Vinodelie i Vinogradarstvo S.S.S.R.* 13, No. 8, 21-2(1953); cf. *C.A.* 49, 12775e.—The amts. of 15% $ZnSO_4$ and 4% NaOH solns. (used for the pptn. of wine proteins before detn. of sugar) are not fixed as was stated before but increase proportionally with the sample size. This is true for both the grape must and the grape residues. Thus, for 25-ml. must samples complete protein pptn. occurred when only 25 ml. of each of the reagents was used. For grape residues greater amts. of the reagents were required on prolonged period of the husks extn.; for periods up to 25 min. the amt. of reagent required was proportional to the extn. time. E. Wierbicki

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZMARIASHVILI, G. I

Effect of the coefficient of passenger load of buses on the transportation cost. Avt.transp. 35 no.3:13-15 Mr '57. (MLRA 10:5)

(Motorbus lines--Cost of operation)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZMARIASHVILI, G. L., Cand Tech Sci -- (diss) " ~~Investigation~~ Study of the effect of the parameters (of the operation) of city busses ~~operation~~ from their technical and economic indices." Mos, 1958. 19 pp with graphs. (Min Higher Ed USSR, Mos ~~Automobile~~ Road (Motor Vehicle and) Inst), 120 copies. (KL, 9-58, 118)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZMARIASHVILI, G.I., inzh.

Frequency of urban bus service. Trudy MADI no.24:137-144 '58.
(MIRA 11:12)

(Motorbus lines)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

USSR/Cultivated Plants - Ornamental. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15915

Author : I.D. Medzmariashvili
Inst : -
Title : Some Information on the Biology and Agrotechnics of the Garden Anemone in Abkhaziya.
(Nekotoryye dannyye k biologii i agrotekhnike anemona sadevogo v Abkhazii).

Orig Pub : Tr. Sukhumsk. botan. sada, 1956, vyp. 9, 495-499.

Abstract : The Anemone coronaria is recommended and described. The time of the beginning of flowering is pointed out together with the duration of florescence on the Black Sea shore of Abkhaziya and the conditions for its cultivation and reproduction.

Card 1/1

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZMARIASHVILI, I.D.

On the biology of the garden anemone. Trudy Sukh.bot.sada no.11:467-471 '58. (MIRA 13:5)
(Anemone)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZMARIASHVILI, I.D.

Materials on the cultivation of garden anemones. Trudy Sukh.bot.sada no.12:313-336 '59. (MIRA 14:7)

(Anemones)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

CZECHOSLOVAKIA
1 Oct 63

MEDZO, Jan

Head, Department of Production, Office of the Commissioner for Agriculture of the Slovak National Council, author of an article on fall agricultural works.

Pravda, Bratislava, 1 Oct 63, p 2.

(1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZVELIYA, D.N.

A case of marble bones. Vest. rent. i rad. no.6:90-92 N-D '55.
(MLRA 9:4)

1. Iz rentgenologicheskogo otdeleniya Respublikanskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir.-dots. A.I. Ushveridze, nauchnyy rukovoditel'-deystvitel'nyy chlen AMN Gruzinskoy SSSR prof. V. Zhgenti) Ministerstva zdravookhraneniya Gruzinskoy SSSR.
(OSTEOSCLEROSIS
osteopetrosis)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZVETSKIY, S.V.; RATNITSKAYA, S.S.

Cholesterol and phosphatides in brain tissue of animals. Biokhimiia 19 no.6:677-682 N-D '54. (MLRA 8:5)

1. Kafedra biologicheskoy khimii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(BRAIN, metabolism,
cholesterol & phosphatides, determ.)
(PHOSPHOLIPIDS, metabolism,
brain, determ.)
(CHOLESTEROL, metabolism,
brain, determ.)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 16618-65 EWT(m)/EPF(n)-2/EPR/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4/Ps-4/Pu-4
IJP(c)/BSD/ASD(a)-5/ASD(m)-3 MJW/JD/HM/JG
ACCESSION NR: AP4047431 S/0182/64/000/010/0022/0024

AUTHOR: Medzyanovskiy, E. B.

TITLE: Stamping of sheet billets of low-plasticity metals heated by pyrotechnic compounds

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 10, 1964, 22-24

TOPIC TAGS: magnesium alloy, molybdenum alloy, tungsten alloy, blanking, heating, sheet stamping, explosive forming, pyrotechnic

ABSTRACT: Molybdenum, tungsten, titanium, magnesium, and some other alloys have low plasticity at normal temperatures, hampering the production of parts by plastic working. Since heating increases the plasticity of these alloys, the author worked out a new method of heating by application of pyrotechnic compounds to the surface of alloy sheets. The purpose of this work was to estimate the production possibilities of heating by pyrotechnic compounds, to determine the best forming methods with this type of heating, and to measure some characteristics of the process. The pyrotechnic compound consisted of a mixture of two parts (by weight) of a pyrotechnic powder

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 16618-65
ACCESSION NR: AP4047431

3

and one part of a 2% solution of cellulose nitrate in acetone. Only a small quantity of gas and slag were formed during ignition of the pyrotechnic compound and no chemical reaction was noted between the compound and the metal. Tungsten samples 40x50 mm in area and 1.0 or 1.5 mm thick, as well as TsSDM and TsM-2A molybdenum alloys 85—95 mm in diameter and 1.0 mm thick, were heated with or without insulation and the temperature was measured by means of needle thermocouples. Using 5 and 6.5 g of pyrotechnic compound for 35 and 50-g samples of W alloy and 16 and 22 g of compound for 60 and 75-g samples of Mo alloy, suitable stamping temperatures of 400—600C were reached in 10—15 and 20—30 seconds, respectively. The temperature then dropped to 300—400C in a similar time interval. Mg-alloy samples 2.5 mm thick were heated to 250C in 20 seconds. Both W and Mg alloys blanked properly under these conditions, with even edges. Deep drawing of molybdenum-alloy cylinders by a double-action hydraulic press was unsatisfactory, however, as corrugations were formed at the joint between the bottom and the wall. This was caused by insufficient heating. Explosive forming of spherical end closures 140 mm in diameter from TsSDM molybdenum-alloy and MA-1M magnesium-alloy blanks

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 16618-65
ACCESSION NR: AP4047431

was very successful. The author concludes that pyrotechnic compounds may be used to produce high-quality parts by explosive forming. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000 ATD PRESS: 3147

Card 3/3

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 44800-65 EWT(m)/EWA(d)/EPR/EWP(t)/EWP(k)/EWP(b)/EWA(c) Pf-4/Pe-4
IJP(c) JD/HW
ACCESSION NR: AP5011055 UR/0182/65/000/004/0025/0028

AUTHOR: Medzyanovskiy, E. B.

TITLE: Effect of the transmitting media on forming of sheet metals by explosive deformation

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1965, 25-28

TOPIC TAGS: explosive forming, aluminum alloy explosive forming, transmitting medium, multistage explosive forming, hydrostatic forming

ABSTRACT: AMg6M aluminum-base alloy sheets 2 mm thick were subjected to explosive forming using water, sand, and rubber as transmitting media in a spherical die 120 mm in diameter. To determine the effect of shock waves reflected from container walls, forming was done in a permanent container, a thick-walled cylinder, and in single-shot polyethylene or resin-impregnated glass cloth containers. By varying the weight of the explosive charge, the specimens were deformed until cracks appeared. It was found that forming with sand required an explosive charge 4.5—5.0 times larger than forming with water for a cavity of the same size. The distribution of the maximum deformation and maximum curvature and the nature and location of ruptures along the profile of the deformed blanks were appreciably different in

Card 1/2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 44800-65

ACCESSION NR: AP5011055

forming with water, sand, and rubber. The experimental results showed that explosive forming with different transmitting media resulted in different distributions of plastic waves, thus making it possible to control the distribution of deformations in metal. The best method to increase extrusion is to organize the forming process in such a way as to ensure a uniform distribution of the curvature along the blank profile. Thus, maximum deformations can be obtained by multistage successive explosive forming with a change of transmitting media between stages, e.g., water-sand and water-rubber. The multistage explosive forming ensures a greater utilization of the plastic properties of metal than hydrostatic forming. Explosive forming, for example, produced cavities with a volume and depth, respectively, of 1.17—1.32 and 1.27—1.28 times larger than hydrostatic forming; the corresponding figure for relative thinning of the cavity walls was 1.96—2.23 times. Orig. art. has: 4 figures and 2 tables. [MS]

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 005 OTHER: 002 ATD PRESS: 3256

MOB

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 2049-66 EWT(m)/EWA(d)/EWP(t)/EWP(k) IJP(c) JD/HW/JG/GS
ACC NR: AT6008820 SOURCE CODE: UR/0000/65/000/000/0171/0179

AUTHOR: Medzyanovskiy, E. B.

50
47
B+1

ORG: none

TITLE: Explosive forming of low plasticity metals with preheating

SOURCE: Issledovaniye protsessov plasticheskoy deformatsii metallov (Research on processes of plastic deformation of metals). Moscow, Izd-vo Nauka, 1965, 171-179

TOPIC TAGS: metal sheet, molybdenum alloy, titanium alloy, magnesium alloy, alloy sheet, sheet forming, explosive forming / TsSDM alloy

ABSTRACT: The low ductility at room temperature of some molybdenum-, titanium-, and magnesium-base alloys presents serious difficulties in plastic forming these materials even with methods of explosive forming. For these materials a method of explosive forming with preheating has been developed in cooperation with the Laboratory of plastic deformation at the Institute of Machine Science, Academy of Sciences SSSR. Since water cannot be used in this method, sand was selected as the most suitable pressure transferring medium. Two methods of preheating were tested: heating with hot sand or with an exothermic composition which was painted on the blank to be formed and ignited shortly before

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L 20449-66

ACC NR: AT6008820

2

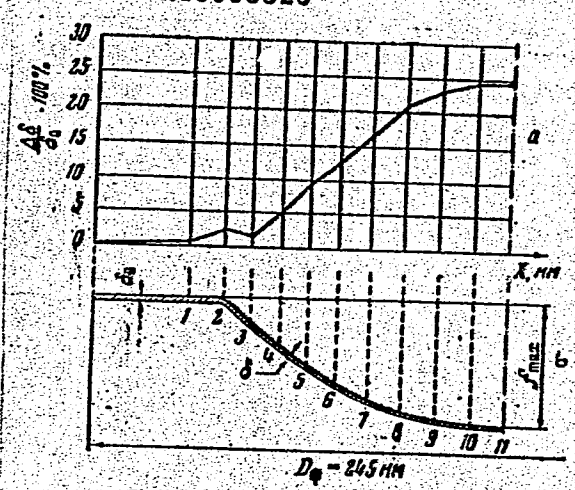

Fig. 1. Distribution of thickness reduction (a) and shape of the part (b) explosively formed from TsSDM alloy sheet 1.012 mm thick (die diameter, 150 mm)

explosion. The second method was found to be more flexible and suitable than the first. The most important variables in the process, such as the amount of the exothermic composition, size of the explosive charge, and distance from the charge to the blank, were determined in preliminary experiments with steel specimens. Blanks 245 mm in diameter and 1.012 mm thick were painted with 100 g of TsSDM molybdenum alloy

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L 2049-66
ACC NR: AT6008820

exothermic composition and formed into a spherical cup (see Fig. 1). No significant reduction in the blank diameter occurred; the thickness reduction in the center of the blank amounted to roughly 25% without any damage to the material. The temperature of the blank at the moment the explosive charge was detonated was 360—380C. Container heads 37 mm deep with a flange diameter of 140 mm were formed from TsSDM alloy blanks 1 mm thick. In this case, the cavity was due mainly to the reduction in blank diameter; the thickness reduction in the blank center did not exceed 16.8%. The same method was used for a limited number of MA2-1M magnesium-alloy container heads 36 mm deep. The sheet used was 2.5 mm thick. Orig. art. has: 5 figures. [DV]

SUB CODE: 11, 13/ SUBM DATE: 29Oct65/ ORIG REF: 001/ OTH REF: 001
ATD PRESS: 4222

Card 3/3 BK

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZYKHOVSKAYA, N. A.

Yakubovich, A. Ya.; Danilevich, A. A.; and Medzykhovskaya, N. A.

Contact method of production of acetaldehyde from acetylene in the gas phase.

J. Applied Chem. (USSR), Vol. 19, 1946, pp. 973-89

Chem. Abs., Vol. 41, p.4367-f

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZYKHOVSKAYA, N. A.

B Chem

Synthesis and polymerization of vinylcarprolactam. M. F. Shostakovskii, N. A. Medzykhovskaya, and M. G. Zelenskaya. Bull. Acad. Sci. U.S.S.R., Div. Chem. Sci. 1952, 627-32(Engl. translation). See C.A. 47, 10479i. H. L. H.

Chemical Abst
Vol. 48 No. 9
May 10, 1954
Organic Chemistry

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

SHOSTAKOVSKIY, M.F.; MEDZYKHOVSKAYA, N.A.; ZELENSKAYA, M.G.

Synthesis and polymerization of vinylcaprolactam. Izvest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk '52, 682-9. (MLRA 5:9)
(CA 47 no.20:10479 '53)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZYKHOVSKAYA, M. M.

Chem

Chem Abs v48
1-25-54
Organic Chemistry

*N-Vinyl-ε-caprolactam. M. F. Shostakovskii, N. A. Medzykhovskaya, and M. G. Zelenskaya. *Akad. Nauk S.S.S.R., Inst. Org. Khim., Sintezy Org. Soedinenii, Sbornik* 2, 44–5(1952); cf. *C.A.* 38, 330⁶.—ε-Caprolactam (28 g.) is allowed to react with 9.7 g. K at 60–80° in 150 ml. MePh. The mixt. is charged into an autoclave with 198 g. caprolactam and 200 ml. MePh and the app. is charged with C_2H_2. With agitation the autoclave is heated to about 100° (max. temp. 125°) until reaction ceases, after which a fresh portion of C_2H_2 is admitted. The process is repeated until absorption ceases. Distn. gave 71% *N-vinyl-ε-caprolactam*, m. 34–5°, b_4 95°, b_{13} 131–2°. The K in the prepn. can be replaced by Na. No Cu or Ag parts of the app. must come in contact with C_2H_2. G. M. Kosolapoff

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7-19-54

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZYKHOVSKAYA, N. A., ZELENSKAYA, M. G.,
SHOSTAKOVSKIY, M. F.

Polymers and Polymerization

Synthesis and polymerization of vinylcaprolactam. Izv. AN SSSR. Otd. khim. nauk. No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

ISAGULYANTS, V.I.; MEDZYKHOVSKAYA, N.A.; SHISHKOV, V.P.; BABOTINA, V.P.

Synthesis and properties of the vinyl ether of 2-decahydro-2-naphthol.
Doklady Akad. Nauk S.S.S.R. 85, 329-30 '52. (MLRA 5:8)
(CA 47 no.15:7470 '53

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDZYKHOVSKAYA, N. A.

235T14

USSR/Chemistry - Plastics 21 Jul 52

"Some Derivatives of the Vinyl Ether of Beta-Decalol," V.I. Isagulyants Act Mem, Acad Sci Armenian SSR, N. A. Medzykhovskaya, V. P. Shishkov

"Dok Ak Nauk SSSR" Vol 85, No 3, pp 567-570

The vinyl ether of beta-decalol reacts with n-butyl alc to give butyl-beta-decalylacetal, which disproportionates on distn and apparently on standing. The vinyl ether of beta-decalol adds bromine. It polymerizes very easily in the presence of acid catalysts (BF_3, $FeCl_3$, $AlCl_3$) or benzoyl peroxide. The polymers formed are hard, resinous substances. With BF_3 catalyst, the

235T14

reaction goes at neg temps; on heating to 45-70° the reaction proceeds violently; at high temps, a low mol polymer results. The polymer is non-thermoreactive, hard, clear, colorless to light yellow in color, and sol in a number of org solvents. In connection with Polymerization under use of catalytically acting quantities of benzoly peroxide, a cryst substance was extracted. According to its mol wt, it is a compd formed from 2 gram mols of the vinyl ether of decalol and one gram mol of oxygen.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEERGANS, F.

Organization of work concerning the agricultural machinery in the machine-tractor stations.

p. 493 (MECHANISACE ZEMEDELSTVI) Vol. 7, no. 21, Nov. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEERGANZ, F.

A plan for repairing machines in machine-tractor stations.

p. 567 (MECHANISACE ZEMEDELSTVI) Vol. 7, no. 24, Dec. 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEERGANS, F.

"Toothed plow edge from the German Democratic Republic." p. 63

MECHANISACE ZEMEDELSTVI. Praha, Czechoslovakia, Vol. 9, No. 3, 1959

Monthly list of East European Accession Index (EEIA), Library of Congress, Vol. 8, No. 7, July, 1959, Unclassified

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEERSON, F.Z.; KAPELKO, V.I.

The effect of cardiac hyperfunction on its automaticity and reactivity to the chronotropic effect of the vagus. Kor vasa 7 no.4:264-272 '65.

1. The Laboratory of Physiology and Pathophysiology of the Myocardium, Institute of Normal and Pathological Physiology, Academy of Medical Sciences, Moscow, U.S.S.R.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEERSON, F.Z.; KALEBINA, N.S.; MAIOV, G.A.; SIMONYAN, N.T.; ROMANOVA, I.K.

Effect of actinomycin D on the development of the compensatory hyperfunction of the myocardium, kidney and liver. Acta biol. acad. sci. Hung. 15 no.4:375-382 '65.

1. Laboratory of Physiology and Pathology of the Myocardium (Head: F.Z. Meerson) and Institute of Normal and Pathological Physiology of the Academy of Medical Sciences (Head: V.V. Parin).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

BLAKE, R.K.; MEERKAMPER, B.; TUSEK, Ivanka, [translator]

Structure of the developed picture. Kem ind 10 no.7:Suppl. F-82--F-84 Jl '61.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

Mefedova, M. A.

Characteristic bacteria of ocean muds from the northwestern Pacific Ocean. N. A. Mefedova (Oceanolog. Inst., Acad. Sci. U.S.S.R., Moscow). *Mikrobiologiya* 24, 325-31(1956).—In bottom deposits of the northwestern Pacific are found species of *Flavobacterium* and *Micrococcus*, *Bacillus abyssi*, *B. submarinus*, and *B. barbaroides*; *Bacterium anserie*, *B. rubidum*, and *B. reticularis*. They are versatile in elaboration of enzymes, and so are able to utilize a wide variety of org. and inorg. nutrients. Their biochem. properties are tabulated. J. E. Smith

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFEDOVA - N. A.

2

Relations of bacteria to chemical processes and animal organisms in sea muds of the Northwest Pacific. L. A. Rozenberg and N. A. Mefedova (Inst. Oceanol., Acad. Sci. U.S.S.R., Moscow). *Mikrobiologiya* 25, 61–5(1956).—Studies of the complex relations in samples from 12 locations show higher bacterial cell counts in the muds which are richer in microfauna. Muds which are poor in both have a relatively high concn. of biogenic factors. Microflora, microfauna, and biogenic factors all decrease as distance from shore increases. Alky., denitrification activity, and the ratios $N:NH_4$ and $P:PO_4$ were investigated.

Julian F. Smith

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

KALINENKO, V.O.; MEFEDOVA, N.A.

Bacterial overgrowth on the underwater parts of a ship. Mikrobiologiia 25 no.2:184-190 Mr-Ap '56. (MLRA 9:7)

1. Institut okeanologii Akademii nauk SSSR, Moskva.
(MARINE FLORA) (SHIPS--PAINTING) (BACTERIA)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

Mefedova, N. A.

F-1

USSR/Microbiology - General Microbiology

Abs Jour : Ref. Zhur-Biologiya, No 1, 1957, 476

Author : V. O. Kalinenko and N. A. Mefedova.

Inst :

Title : Bacterial Growth on the Submerged Parts of a Ship.

Orig Pub : Microbiologya, 1956, 25, 2, 191-194

Abstract : The effect of bacteria on the toxicity of different paints which are applied to the submarine parts of Black Sea ships has been investigated. Sterile sea water did not change the properties of the paints in an experiment which continued for two months. The condition of different paints in natural sea water was studied on experimental glasses covered with

Card 1/3

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

USSR/Microbiology - General Microbiology F-1

Abs Jour : Ref. Zhur-Biologiya, No 1, 1957, 476

Abstract : paint in the center. The bacteria utilized the paints as a source of nutrition, formed in the microfissures a multilayer mucous film, and created mineral deposits of Ca, Mg, and Fe. The toxicity of the paints decreased under the influence of the bacterial growths. The bacteria were the first settlers on the submerged parts of ships. Zooorganisms settled on the surfaces, the properties of which were changed by the action of the microorganisms, and established with the latter symbiotic relations. A new method of evaluating the toxicity of paints in laboratory conditions by the use of

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

USSR/Microbiology - General Microbiology F-1

Abs Jour : Ref. Zhur-Biologiya, No 1, 1957, 476

Abstract : bacteria has been proposed. Into a Petri dish with a paint spot in the center, semicooled agar with a suspension consisting of a mixture of sea bacteria cultures was poured. Toxicity was characterized by a zone of luminescence around the paint spot.

Card 3/3

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFEDOVA, N.A.

ROZENBERG, L.A., MEFEDOVA, N.A.

General study of earths of the northwestern Pacific. L.A. Rozenberg, N.A. Mefedova. [with Summary in English] Mikrobiologiia 27 no.2:214-220 Mr-Ap '58 (MIRA 11:5)

1. Institut okeanologii Akademii nauk SSSR, Moskva.
(PACIFIC OCEAN--BACTERIA)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

FEDOTENKOV, A.G.; MEFEDOVA, N.A.; DISHKANT, I.P.

Preparation and preservation of bone marrow. Probl. gemat i perel. krovi 6 no.2:46-49 '61. (MIRA 14:2)
(MARROW—TRANSPLANTATION)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFEDOVA, N.A.

Phagocytic activity of bone marrow cells in human fetuses. Probl. gemat. i perel. krovi no.12:47-50'62. (MIRA 16:8)

1. Iz Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir.A.Ye. Kiselev) Ministerstva zdravo-okhraneniya SSSR.
(PHAGOCYTOSIS) (MARROW) (FETUS)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

FEDOTENKOV, A.G.; DANILOVA, I.A.; [illegible], N.A.; [illegible], I.I.

Preservation of bone marrow in a plastic container. Probl. gemat. i perel. krovi 9 no.1:36-40 Ja '64.

(MIRA 18:1)

1. Iz laboratorii konservirovaniya tkaney (zav. - A.G. Fedotenkov) TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor - dotsent A.Ye. Kiselev).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

GEYMBERG, V.G.; MEFED'YEVA, N.P.

Investigation of properties of different variants of Shigella sonnei.
Zhur. mikrobiol. epid. i immun. no.11:49-54. N '54. (MLRA 8:1)

1. Iz mikrobiologicheskoy laboratorii (zav. prof. V.N.Azbelev)
Otdela pishchevoy sieiyeny Instituta pitaniya AMN SSSR (Moskva)
(SHIGELLA,
sonnei, properties of different variations)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFERT, V. V.

VASIL'CHENKO, I.T.; MEFERT, V.V. [deceased]; KOTOV, M.I.

Amaranth family (Amaranthaceae Juss.). Flora URSR 4:400-414 '52.
(Ukraine--Amaranth) (MLRA 7:12)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

МЕФФЕРТ, В. В.

BLINOVSKIY, K.V.; BORISOVA, A.G.; VASIL'CHENKO, I.T.; MEFFERT, V.V.; NIKITIN, V.V.; POYARKOVA, A.I.; SHAPARENKO, K.K.; FEDCHENKO, B.A.; SHISHKIN, B.K.; ZHDEN, O.A.; VASIL'YEV, A.O., tekhnicheskiy redaktor; PETROVA, K.T., tekhnicheskiy redaktor

[Flora of Turkmenistan] Flora Turkmenii. Ashkhabad, Izd-vo Turkmenskogo filiala Akad.nauk SSSR. Vol.4. 1950. 271 p. (MIRA 10:7)

1. Chlen-korrespondent Akademii nauk SSSR (for Shishkin)
(Turkmenistan--Botany)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

L 43945-65 EWA(b)-2/EWA(j)/EWT(1) Pa-4 JK

ACCESSION NR: AP5008021 S/0016/65/000/003/0142/0142

AUTHOR: Mefod'yev, V. V.; Yastrebov, A. F. 27 26

TITLE: Role of farm animals in foci formation of Leptospira infection in man 6 B

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 3, 1965, 142

TOPIC TAGS: animal, cow, pig, man, Leptospira, leptospirosis, animal vector study, epidemiology, serologic test, preventive medicine

ABSTRACT: During 1961-1963 at a large sovkhoz in Tyumenskaya oblast 87 cases of leptospirosis were recorded with the highest incidence among children ages 8-15 yrs. All of these children swam in a nearby river which served as a watering place for cattle and was also contaminated by manure from local pig farms. Leptospirosis in the cattle was first noted in 1956 and reached its peak in May 1961. In serologic tests specific antibodies to 11 Leptospira serologic types were found in 609 (70.99%) of the 859 cattle [illegible] studied

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The prevalent serologic types both in human and cattle serums were

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L 43945-65

ACCESSION NR: AP5008021

Leptospira pomona, L. hebdomadis, and L. icterohaemorrhagiae AB, and the same types prevailed in the pig serums. It was established that farm animals play a direct causative role in the foci formation of

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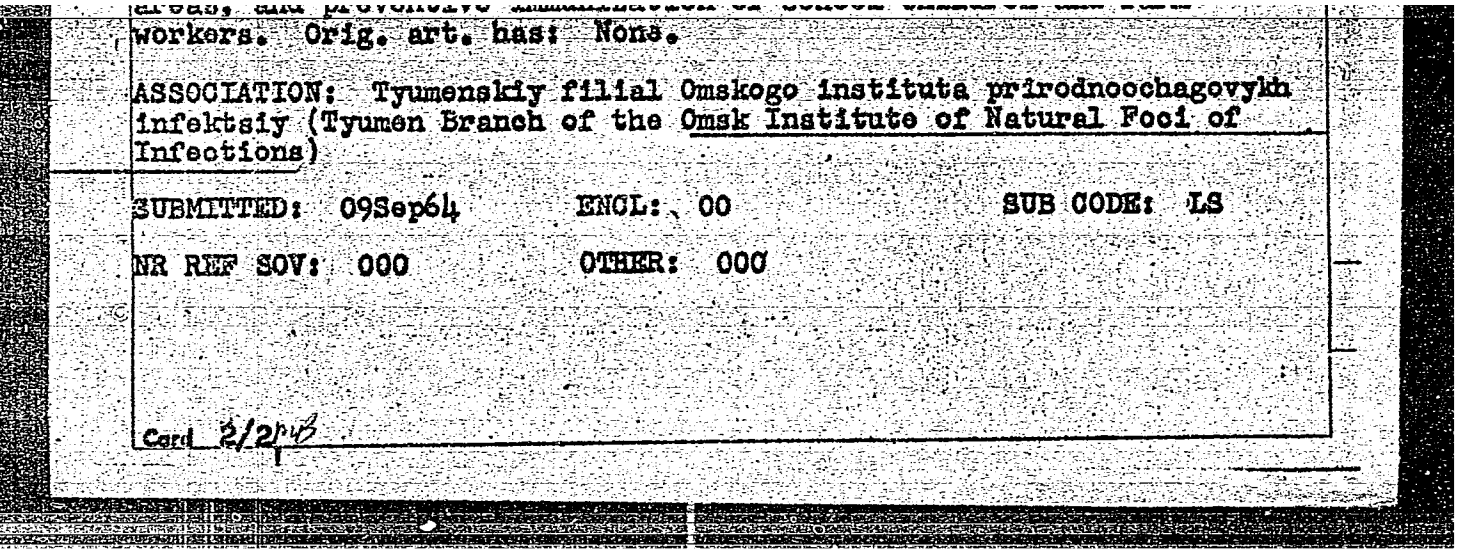

areas, and preventive immunization of school children and [illegible] workers. Orig. art. has: None.

ASSOCIATION: Tyumenskiy filial Omskogo instituta prirodnoochagovykh infektsiy (Tyumen Branch of the Omsk Institute of Natural Foci of Infections)

SUBMITTED: 09Sep64 ENCL: 00 SUB CODE: LS

NR REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFODOVSKIY, V.Ya.

Use of a magnesite-chrome lining. TSement 27 no.6:14-15 N-D '61. (MIRA 15:3)
(Kilns, Rotary) (Refractory materials)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

SOZANSKIY, S.G.; MEFODOVSKIY, V.Ya.

Improving suction in cement mills. TSement 28 no.4:19 Jl-Ag '62.
(MIRA 15:7)

1. Nikolayevskiy zavod.
(Milling machinery) (Cement plants)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFODOVSKIY, V.Ya.

Saving fuel in clinker buring. TSement 28 no.5:15-16 S-O '62. (MIRA 15:11)

1. Nikolayevskiy tsementnyy zavod.
(Gas as fuel) (Kilns, Rotary)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

SHVYDKIY, M.Ya.; GRINER, M.K.; BEVZ, A.N.; MEFODOVSKIY, V.Ya.

Make fuller use of the capacity of rotary kilns. TSement 28 no.6: 3-5 N-D '62. (MIRA 15:12)

1. Yuzhgiprotsement i Nikolayevskiy tsementnyy zavod.
(Kilns, Rotary)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

ABRAMSON, I.G.; BRESLER, B.M.; VASILISHIN, I.P.; KIZNER, A.S.; MATUSHEVSKIY, T.I.; MEFODOVSKIY, V.Ya.

Gamma-control of moisture in clay slurry. TSement 31 no. 6: 17-19 N-D '65. (MIRA 18:12)

1. Gosudarstvennyy vsesoyuznyy institut po proyektirovaniyu i nauchno-issledovatel'skim rabotam tsementnoy promyshlennosti i Nikolayevskiy tsementno-gornyy kombinat.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

IVANOV, P.; MEFOD'YEV, P. (g.Alma-Ata); PERFILOV, M. (g.Sverdlovsk); KIYKO, P., vneshtatnyy instruktor; RZHEVSKIY, Ye.; LIPOVA, K., inzh.-tekhnolog (g.Baku)

Letters to the editor. Obshchestv. pit. no. 3:50-51 Mr '61. (MIRA 14:4)

1. Gorodskoy komitet Kommunisticheskoy partii Sovetskogo Soyuza i Ministerstvo torgovli RSFSR po obshchestvennomu pitaniyu, g. Ul'yanovsk (for Kiyko). 2. Starshiy instruktor-kulinar Chelyabinskogo oblastnogo upravleniya torgovli (for Rzhevskiy).
(Restaurants, lunchrooms, etc.)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFOD'YEV, V.V.; YASTREBOV, A.F.

Role of farm animals in the formation of anthropurgic foci of leptospirosis. Zhur.mikrobiol., epid. i immun. 42 no.3:142 Mr '65. (MIRA 18:6)

1. Tyumenskiy filial Omskogo instituta prirodnoochagovykh infektsiy.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFOD'YEVA, M.P.

GEL'MAN, A.D.; MEFOD'YEVA, M.P.

Preparation of trivalent neptunium. Dokl. AN SSSR 117 no.2:225-226 N '57. (MIRA 11:3)

1. Institut fizicheskoy khimii Akademii nauk SSSR. Predstavleno akademikom I.I. Chernyayevym.

(Neptunium)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFOD'YEVA M. P.

89-3-5/30

AUTHORS: Gel'man, A. D., Mefod'yeva, M. P.

TITLE: The Reduction of Neptunium to the Trivalent State by a Chemical Method (O vosstanovlenii neptuniya do trekhvalentnogo sostoyaniya khimicheskim metodom)

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 3, pp. 271 - 274 (USSR)

ABSTRACT: By means of the spectrographic method it was found that in a 1 to 1,5 M nitric acid and hydrochloric acid solution of rongalite ($NaHSO_2.CH_2O.2H_2O$), neptunium (IV) is reduced to Np(III). The reduction takes place in nitrogen atmosphere as well as in air. The degree of reduction as well as the stability of Np(III) are, however, remarkably increased in a nitrogen atmosphere. It was found that by an increase of the general content of the reducing agent in the solution (hydrasin + rongalite) the reduction to Np(III) is favored. The reduction of neptunium is on the average accomplished to 70 % in nitric acid solution but to 95 % in hydrochloric acid solution.

It was further found that in the reduction of Np(V) in ron-

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89-3-5/30

The Reduction of Neptunium to the Trivalent State by a Chemical Method

galite a mixture of Np(III) + Np(IV) is formed. Np(III) shows a considerable stability against oxidation by atmospheric oxygen in the mixture of Np(IV) with Np(III). There are 4 figures, and 4 references, 1 of which is Slavic.

SUBMITTED: January 19, 1957

AVAILABLE: Library of Congress

1. Neptunium-Reduction 2. Spectographic method-Applicatior

Card 2/2

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFOD'YEVA, M.P.; ARTYUKHIN, P.I.; GEL'MAN, A.D.

Spectrophotometric study of complex formation by the neptunyl and acetate ions. Radiokhimiia 1 no.3:309-316 '59. (MIRA 12:10)

(Neptunyl compounds) (Complex compounds)
(Acetates)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

5(2, 3)
AUTHORS: Gel'man, A. D., Mefod'yeva, M. P. SOV/20-124-4-24/67

TITLE: On the Complex Formation of Np^{4+} and NpO_2^+ With Trilon B in Aqueous Solutions (O kompleksoobrazovanii Np^{4+} i NpO_2^+ s trilonom B v vodnykh rastvorakh)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 4, pp 815-818 (USSR)

ABSTRACT: In spite of several investigations of the interaction of actinides with Trilon B (disodium salt of ethylene diamine tetraacetic acid) there are no data in publications available on the subject under review. The authors tried to fill the gap. A. Complex formation of Np^{4+} with trilon B.

Addition of excess trilon B to the Np(IV)-solution at pH 3.5 shifts the absorption intensity toward the long-wave range: instead of a maximum 722 mμ, 740mμ appears and a second one at 780 mμ. The maximum 960 mμ is shifted up to 983 mμ. pH increase up to 6.8 leads to a reduction of the maxima 740 and 780 mμ with time, while instead of 983 a maximum

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On the Complex Formation of Np^{4+} and NpO_2^+ With Trilon B in Aqueous Solutions

appears at 988 mμ. A decrease of the pH values down to 5.2 and below led to a reverse process (Fig 1). On the curves of figure 2 2 horizontal sections (plateaus) can be read: 1) between 0.5 n HCl and pH 2; 2) from pH 3.5 to 6.5 of the solution in which the complex formation was investigated. Apparently, only one single complex compound predominates in each of both ranges. The composition, i. e. the ratio $\frac{[Np^{4+}]}{[Trilon]}$ in the complex was determined by spectrophotometric titration of Np^{4+} solution with Trilon (at constant acidity and $\mu = 1$). The authors calculated the stability constants for all complexes which could be produced within the system (provided one of them is present at the respective moment). As follows from table 1, a stationary stability constant within the whole range of acidity is attained most favorably for $[NpH_3\gamma]^{3+}$ and $[NpH_2\gamma]^{2+}$. It is not possible to determine the presence of 2 different complexes according to experimental data.

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The authors suppose, however, that the latter complex predominates. In this connection, they point to a very considerable stability and a similar complex formation of other elements with Trilon. Its K = $(5.7 \pm 3.47) \cdot 10^7$. Complex formation of NpO_2^+. In the first series of experiments NpO_2^+ was titrated with Trilon solution according to the spectrophotometric method ($\mu \sim 1$). From the titration curves only the formation of one single complex NpO_2^+ with γ^{4-} may be assumed. The stability constants could be calculated only for the complex $[NpO_2\gamma]^{3-}$ ($K = (3.73 \pm 1.79) \cdot 10^9$). In the second series of experiments the dependence of complex formation on pH was investigated on a large excess of Trilon (Fig 3). Apparently, it ends at pH 4.5 since later on no spectral changes were observed up to pH 10. Therefore, it may be assumed that within this range only one complex is produced. For pH 3.2 - 4.5

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the K value for $[NpO_2Tr]^{3-}$ was calculated which differs from that determined by titration. In the third series of experiments the authors studied the complex formation in dependence of pH for a solution with equimolar Np (V)-and Trilon content. As may be seen from figure 3, already the entire amount of Trilon is bound at pH 6.3. A duplication of the Trilon quantity leads to an increase of $\bar{\varepsilon}$ (from 225-226 to 235) without considerable variation of the maximum position (by 5 mμ). Although the formation of $[(NpO_2)_2Tr]^{2-}$ could not be proved by the spectrophotometric method, its presence is evidently confirmed by a high degree of stability of the constant calculated for it between pH 3.25 and 4.4 (Table 3). There are 3 figures, 3 tables, and 6 references, 3 of which are Soviet.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences, USSR)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

On the Complex Formation of Np^{4+} and NpO_2^+ With Trilon B in Aqueous Solutions

SOV/20-124-4-24/67

PRESENTED: July 8, 1958, by V. I. Spitsyn, Academician

SUBMITTED: July 2, 1958

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEDVEDEVA, M. P., Cand Chem Sci — (diss) "Concerning the production of neptunium in various valence forms and factors effecting their durability in aqueous solutions," Moscow, 1960, 14 pp (Institute of Physical Chemistry, AS USSR. Moscow State Univ im M. V. Lomonosov; Chemical Faculty) (KL, 37-60, 126)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

MEFOD'YEVA, M P

PHASE I BOOK EXPLOITATION SOV/5301

Gel'man, Anna Dmitriyevna, Doctor of Chemical Sciences; Apollinariy Ivanovich Moskvin, Candidate of Chemical Sciences; Lev Mikhaylovich Zaytsev, Candidate of Chemical Sciences; and Mayya Pavlovna Mefod'yeva, Candidate of Chemical Sciences

Kompleksnyye soyedineniya transuranovykh elementov (Complex Compounds of Transuranium Elements) Moscow, Izd-vo AN SSSR, 1961. Errata slip inserted. 4,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut fizicheskoy khimii.
Ed. of Publishing House: E.S. Dragunov, Tech. Ed.: P.S. Kashina.

PURPOSE: This book is intended for chemists interested in the complex compounds of transuranium elements, and specifically for young scientific workers and aspirants doing research in this field.

COVERAGE: The book deals with the complex compounds of transuranium elements. It describes the formation of complex compounds of neptunium (including oxalates, carbonates, acetates, and fluorides), and plutonium in aqueous solutions. Types of such solutions are described along with the hydrolysis

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of hydrated plutonium ions of various oxidation states. Physicochemical properties of plutonium compounds in aqueous solutions are examined along with the plutonium oxalates, phosphates of Pu (IV) and Pu (VI), and acetates of Pu (VI). The synthesis and properties of complex compounds of tri-, tetra-, and hexavalent plutonium are described along with the insoluble plutonium compounds such as the plutonium oxalates, hydroxides, peroxides, and dioxides. The formation of americium, curium, berkelium, californium, einsteinium, fermium, and mendelevium complexes are also covered. The use of complex compounds for the separation of transuranium elements is discussed along with prevailing methods such as coprecipitation, extraction, ion exchange, and fractional distillation. The authors thank Candidates of Chemical Sciences P.I. Artyukhin and L. Ye. Drabkin. There are 108 references: 54 English, 46 Soviet, 4 Swedish, 2 German, and 2 French.

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Foreword [V.I. Spitsyn, Academician] 3

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Ch. I. Formation of Neptunium Complexes in Aqueous Solutions 5
Formation of Np (III) complexes 5
Formation of Np (IV) complexes 6

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A051/A129

5.2500 (1273, 1350, 1043)
21.3100

AUTHORS: Gel'man, A.D., Mefod'yeva, M.P., Pikayev, A.K., Glazunov, P.Ya.

TITLE: The effect of ionizing radiation on the valency state of neptunium in aqueous solutions

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 31-36

TEXT: A study was made of fast electrons acting upon $Np^{(VI)}$ in $HClO_4$ (0.02-3.4 n), HNO_3 (0.05 n) and H_2SO_4 (0.86 n) solutions, as well as in 0.8 n H_2SO_4. The authors investigated the radiolytic reduction of $Np^{(VI)}$ in these solutions, as well as the radiolytic oxidation of $Np^{(IV)}$ in the sulfuric acid solution. $Np^{(VI)}$ in the $HClO_4$ solution was produced by heating a solution of neptunium salt with concentrated nitric acid for 3-4 hours (Ref 2). $Np^{(IV)}$ in the H_2SO_4 solution was prepared by a two-fold reprecipitation of the hydroxide. The concentrations of neptunium in the investigated solutions was determined by spectrophotometry. Two series of measurements of self-reduction of $Np^{(VI)}$ in the solution were carried out, the concentration of which was close to that of the irradiated solutions. The relation-

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The effect of ionizing radiation ...

ship curves D_{980} to the standing time of the solutions are given in Fig 1. Fig 2 shows the difference in the accumulation of $Np^{(VI)}$ when the solution is irradiated and Fig 3 is a diagram of the apparatus used for irradiating the solutions. An electron accelerator of 1.0-1.2 Mev served as the source of ionizing radiation (Ref 3). The relationships of the quantity of $Np^{(V)}$ formed to the amount in irradiation of a 0.001 M solution of $Np^{(VI)}$ in 0.86 n H_2SO_4 (curve 1) and 0.001 M $Np^{(VI)}$ in 0.05 n HNO_3 (curve 2) are shown in Fig 4. Using the slopes of the curves 1 and 2 (Fig 4) the initial yields of $Np^{(V)}$ could be computed. $G_{NpO_2^+}$ yield equals 3.01 for 0.86 n H_2SO_4 and 8.25 ion/100 ev for 0.05 n HNO_3. When an aqueous solution of $Np^{(IV)}$ is irradiated with fast electrons, the oxidation of $Np^{(IV)}$ to $Np^{(V)}$ takes place, but not that of $Np^{(VI)}$. Curve 3 (Fig 4) shows the relationship of the quantity of $Np^{(V)}$ formed to the amount obtained when irradiating a 0.001 M solution of $Np^{(IV)}$ in 0.8 n H_2SO_4. Thus, the authors conclude that the most stable valency state of neptunium in the radiochemical sense is $Np^{(V)}$, i.e., the neptunoyl ion NpO_2^+. The authors calculated the value of $G_{NpO_2^+}$ and found it to be largely dependent on the nature of the acid used.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

The effect of ionizing radiation ...

It was found that the oxidation of $Np^{(IV)}$ to $Np^{(V)}$ in 0.8 n H_2SO_4 takes place as a result of the presence of OH radicals and hydrogen peroxide:

$$2H_2O + Np^{4+} + OH \longrightarrow NpO_2^+ + OH^- + 4H^+ \quad (6)$$

$$2H_2O + Np^{4+} + H_2O_2 \longrightarrow NpO_2^+ + OH^- + OH + 4H^+ \quad (7)$$

The [illegible] values of $G_{NpO_2^+}$ = 4.1 ion/100 ev indicated that in addition to reactions (6) and (7) other processes may play a part in the radiolytic transformation of $Np^{(IV)}$, such as:

$$4H^+ + NpO_2 + H \longrightarrow Np^{4+} + H^+ + 2H_2O$$

$$H + H \rightarrow H_2.$$

The authors assume that there is [illegible] the products of water radiolysis.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033320001-8

B/196/62/000/[illegible]/[illegible]
AC51/A129

The effe[illegible] of [illegible]

lytic oxidation of $Np^{(IV)}$ [illegible] sulfuric acid medium becomes more complex due to complex-formation of Np^{IV} with the sulfate-ion. There are 4 figures, [illegible] table and [illegible] references: [illegible] Soviet bloc and [illegible] Soviet-bloc.

Table. Relationship [illegible] of $Np^{(V)}$ [illegible] the concentration [illegible] of H_2SO_4

Concentration of H_2SO_4 [illegible]	[illegible]
0.015	
0.03	
[illegible]	
[illegible]	
[illegible]	[illegible]
0.1	[illegible]

Card 4/[illegible]

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